DUPLICATE

Caprock Educational Broadcasting 2921 Brown Trail Suite 140 Bedford, TX 76021 (817) 498-7001

RECEIVED BY

Secretary of the Federal Communications Commission 1919 M. Street N.W. Washington, D.C. 20554

JUL 2 6 1989 FCC MAIL BRANCH

July 21, 1989

Dear Secretary,

Transmitted herewith is our application for a Minor Modification to our construction permit for KAMY-FM (BPED-831220AD), to operate on the assigned frequency of channel 211 in Lubbock, Texas. It has been determined that our previous application for modification of construction permit (BMPED-880328M), was inadvertently a major modification, and as such was made in error. Corrections have been made to this request for modification of construction permit and all is in order at this time. This minor modification of construction permit is to superceed any previous modifications to the construction permit (BPED-831220AD). Please dismiss all previous request for modification immediately.

Further, it should be noted that according to question 11, of section V-B of form 340, this proposed modification of tower site only changes the proposed area of coverage 47.4%. This is less than the 50% change constituting a major change.

If there are any further questions with regard to this minor modification please feel free to contact me at (817) 498-7001, or Mr. James L. Oyster at the following at (703) 937-4800.

Sincerely,

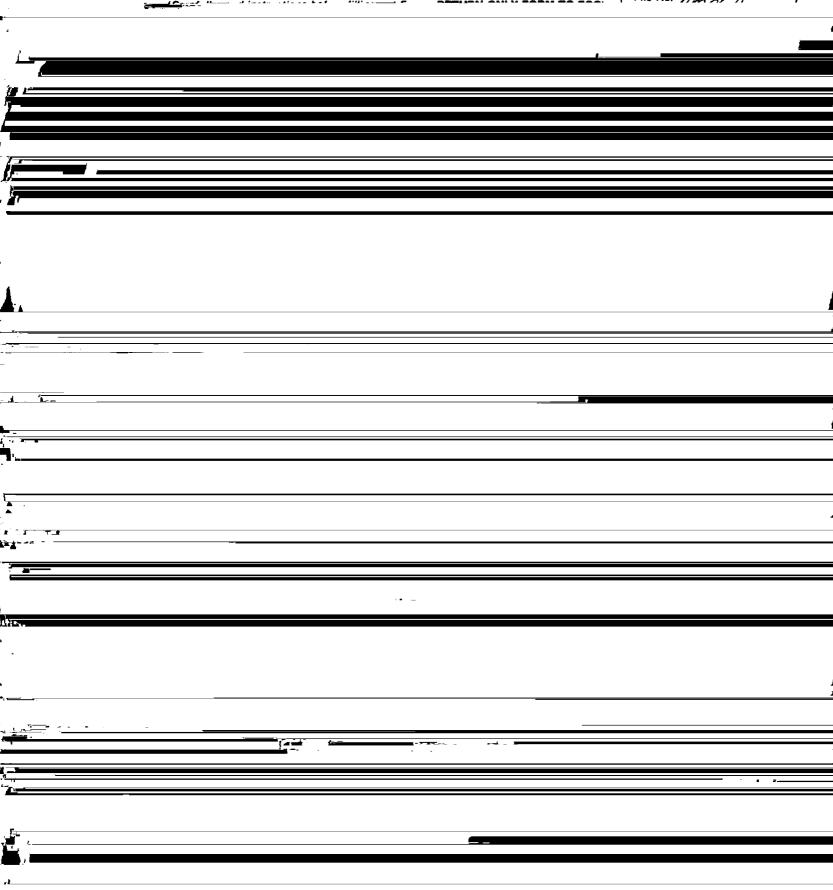
T. Kent Atkins

DUPLICATE

United States of America Federal Communications Commission Washington, D.C. 20554 Approved by OMB 3060-0034 Expires 9/30/87

APPLICATION FOR CONSTRUCTION PERMIT FOR NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

For Commission Use Only
8707261
File No. 2006



FM Broadcast Engineering Data

Na	me of Applicant	Caprocl	k Educat	ional Broa	adcastin	g	·			·····
1.	Purpose of auth	orization applic	ed for:							
	₩ Construct a	new station			☐ Install A	uxiliary system	····			
	Change:	₩ Effection	ve radiated p	oower			□ Fre	quency		
		☑ Antenr	na height ab	ove average terrain	ı		₽ Tra	nsmitter loca	ıtion	
		☐ Studio	location ou	tside community of	license					
		☐ Other	(Summarize	briefly the nature	of the changes	proposed.)				
2.	Community of li	cense:		State Texas			City or			
3.	Facilities reques	ted:		Frequency Channel No.			Class (Check one below)			
				90.1 MHz	211	•	⊠ A C	□ B □ C1	□ 81 □ C2	0 0
4.	Geographic coo	rdinates of ant	enna (to nea	rest second)						
	North Latitude	33 °	30	08	West Lo	ngitude	101	52	20	
5.	Effective radiate	d power:								
	Polarization			Horizontal Plane	2		Maximu	um (Beam till	only)	
	Horizont	tal	2	0	kW				kW	
	Vertical		2	0	kW				kW	
6.	Height in meters	of antenna ra	diation cente	er:				•		
			;	Above Average terrain (H/	AAT)	Above Mean Sea Lev	<u>ol</u>	Above Ground		
	Horizont	al .		150	meters	1127.7	meters	147.7	_ meters	
	Vertical			_1.5.0	meters	1127.7	meters	147.7	_ meters	
7.	Is a directional a	intenna being p	proposed?						□ YES	₽ ио

If Yes, attach as Exhibit No. N/A an engineering statement with all data specified in Section 73.316(d) of the Commission's Rules.

FM Broadcast Efigineering Data

8.	Transmitter location:	State Texas	County Lubbock		
		City or Town	Street Address (or other identification)		
		Lubbock	9802 University Street.		
9.	Overall height of complete structure above grappurtenances and lighting (if any, see Part 1	·	266.1 meters		
10. Attach as Exhibit No. Ex map(s) (Sectional Aeronautical charts or equivalent) of the area proposed to be served and shown					
	(a) Proposed transmitter location and the ra	dials along which the profile gr	aphs have been prepared;		
	(b) The 1mV/m predicted contour;				
	(c) Area (sq. mi.) and population (latest cen	sus) within 1 mV/m contour;			
	(d) ·Scale of miles or kilometers (kilometers	if available).			
11.	Attach as Exhibit No $\underline{E-2}$ a map (Sectional Accontours.	eronautical charts where obtains	able) showing the present and proposed 1 mV/m (60 dbu)		
	Enter the following from Exhibit above:	Gain Area 67.25 Loss Area 63.52			
	Percent change (gain area plus loss area as p	percentage of present area) 47	<u>4</u> %.		
	If 50% or more this constitutes a major chang	e. Indicate in question 2(e), Sec	ction I, accordingly. Minor Modification		
12.	If the main studio will not be within the bound pursuant to Section 73.1125(f) of the Commission		ty to be served, attach as Exhibit No $N eq A$ a justification		
13.	Attach as Exhibit No $\mathbb{E}-3$ map(s) (7.5 minute location showing the following information:	U.S. Geographic Survey topog	raphic quadrangles if available) of the proposed antenna		
	(a) Proposed transmitter location accurately kilometers.	plotted with the latitude, the long	gitude lines clearly marked and showing a scale of statute		
	(b) Transmitter location and call letters of al	I AM broadcast stations within	2 miles of the proposed antenna location.		
		A.4	and the second s		

14. If there are any FM or TV stations within 200 feet of proposed antenna or non-broadcast radio stations (except amateur and citizens band), or established commercial and government receiving stations in the general vicinity which may be adversely affected by the proposed operation, attach as Exhibit No. 1.4 the expected effect, a description of remedial steps that may be pursued if necessary, and a statement from the applicant accepting full responsibility for the elimination of any objectionable effect on existing stations.

15.	Tabulation of Terrain Data. (Calculated in accordance with the procedure prescribed in Section 73.313 of the Commission's Rules utilizing
	7.5 minute topographic maps, if available.)

Radial bearing	Height of antenna,	Predicted Distance
degrees true)	radiation center above average elevation of radial	To the 1 mV/m
	(3-16 kilometers)	
	Meters	Kilometers
0°	Exhibit E-5	
45°		
90°		
135°		
180°		
225°		
270°		
315°		

Allocation Studies

(See Subpart C of Part 73 of the Commission's Rules and Regulations)

16.	Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States	and Me	exico	?	
		□ Y ₆	es	æ	No
	If Yes, attach as Exhibit No N / A a showing of compliance with all provisions of the Agreement between the United	States	of A	mai	rica

If Yes, attach as Exhibit No.N./A a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band.

- 17. With regard to stations within 320 kilometers (199 miles) of the common border between the United States and Mexico, attach as Exhibit No.N.A. Ainformation required in 1/.
- 18. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), then with regard to stations more than 320 kilometers (199 miles) from the common border between the United States and Mexico or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as Exhibit NoE_6 a complete allocation study to establish the lack of prohibited overlap of contours involving these stations. The allocation study should include the following:
 - (a) The normally protected interference-free and the interfering contours for the proposed operation along all azimuths.
 - (b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
 - (c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
 - (d) Normally protected and interfering contours over pertinent arcs, of all other proposals and existing stations, which require study to show the absence of objectionable interference.
 - (e) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities.
 - (f) When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to clearly show interference or absence thereof.
 - (g) A scale of miles and properly labeled longitude and latitude lines, shown across the entire (Exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
 - (h) The name of the map(s) used in the exhibit(s).

^{1/} A showing that the proposed operation meets the minimum distance separation requirements. If any separations are proposed that are less than the applicable minimum separation requirements plus 15 kilometers, include these stations. Also include existing stations, proposed stations, and cities which appear in the Table of Assignments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

19.	If Yes, attach as Exhibit No. N/A	within 320 kilometers of the common border between the United States and Canada? ——————————————————————————————————
	casting Stations on Channels 201-	300 under The Canada-United States FM Agreement of 1947.
20.		53 or 54 channels (10.6 or 10.8 MHz) attach as Exhibit No £=7 information required in 1/(separaediate frequency [i.f.] interference).
21.	Is the proposed operation on Char	nnel 218, 219 or 220?
	If Yes, attach as Exhibit No. N/A 221, 222, and 223.	information required in 1/ regarding separation requirements with respect to stations on Channels
22.	Is the proposed station for a channel the Grade B contour of a channel channel 6 may be raised?	el in the range from Channel 201 to 221 (88.1-91.9 MHz) and the proposed antenna location within 6 television station or sufficiently near the Grade B contour that a question of interference to Yes Z No
	If Yes, attach as Exhibit NoN $/A$ a include discussion of the possibility which may occur.	map showing the Grade B contour of the television station and the proposed antenna location. Also ty of interference to the Channel 6 station and the steps proposed to remedy any interference
23.	Is the proposed station for a chan-	nel in the range from Channel 221 to 300 (92.1-107.9 MHz)? ☐ Yes 🙀 No
	If Yes, attach as Exhibit No.N/A	information required in 1/(Except for class D [secondary] proposals.)
24.	If the proposed antenna location proposed to remedy any interferer	is in or near a populated area, attach Exhibit NoN/A a discussion of blanketing and the steps
25.	Environmental Statement, See Par	t I, Subpart 1 of the Commission's Rules.
	Would a Commission grant of this Commission's Rules?	application be a major action as defined by Section 1.1305 of the ☐ Yes ☑ Yes ☑ No
	If Yes, attach as Exhibit No.N∠A	a narrative statement in accordance with Section 1.1311 of the Commission's Rules.
	If No, explain briefly.	
	•	plicant in the capacity indicated below and that I have examined the foregoing statement of techni- o the best of my knowledge and belief.
		T. Kent Atkins
	July 20, 1989 Date	Signature (check appropriate box below)
		2921 Brown Trail Suite 140 Address (include ZIP Code)
		Bedford, TX 76021
	•	(817) 498-7001 Telephone No. (include Area Code)
Ø	Fechnical Director	Registered Professional Engineer
-	Technical Consultant	Other (Specify)

FCC 340 - Page 13 May 1985

-44			
ar N		V.	ß
	00		

Antenna and Site Information

la n	ne of Applicant	Ca	ıll Sign	Station	Location			
ro	ock Educational Broadca	sting	KAMY	Lubb	ock Te	xas		
urı	pose of Application (Put "X" in appropriate	box)	Facil	ities Request	ed			
]	New antenna construction Alteration of existing antenna structure Change in location		Sid	e Mount	ed on	an exis	sting to	wer
•	Location of Antenna: State	c	County	City o	r Town			
	Texas	Lu	bbock	I	ubbock	:		
	Exact antenna location (street address).						tion of antenna	from town
	9801 University Street							
	Geographical coordinates (to nearest segive tower location.	cond). For direc	tional antenna	give coordir	ates of cen	ter of array. F	For single vert	ical radiato
	North Latitude 33 3	0 08	w	est Longitude	•	101°	52 20	
•	If Yes, give call sign: KJTV-TV Has the FAA been notified of proposed If Yes, give date and office where notice						□ YE	s 😾 No
•	List all landing areas within 5 miles of ar antenna site.	ntenna site. Give	distance and o	firection to th	e nearest b	oundary of ea	ach landing ar	rea from th
	Landing Area		Distance			Dir	ection	
	(a) <u>NONE</u> (b)	· · · · · · · · · · · · · · · · · · ·						
	(c)	-						
•	See below Attach as Exhibit No a descriptional antenna, give spacing and orientationary tower. This tower is used to the second		Antenna	will be				
1	Tower		#1	#2	#3	#4	#5	#6
· (Overall height above ground (include	meters	266.1					
	obstruction lighting)							

feet

meters

feet

Overall height above mean sea level

(include obstruction lighting)

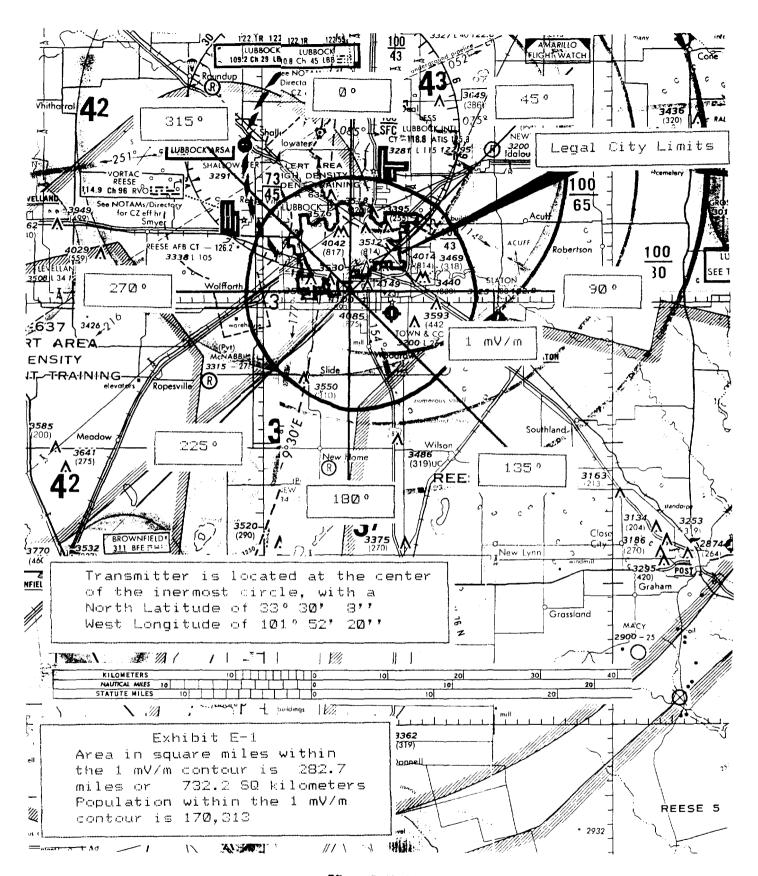
873.0

1246.0

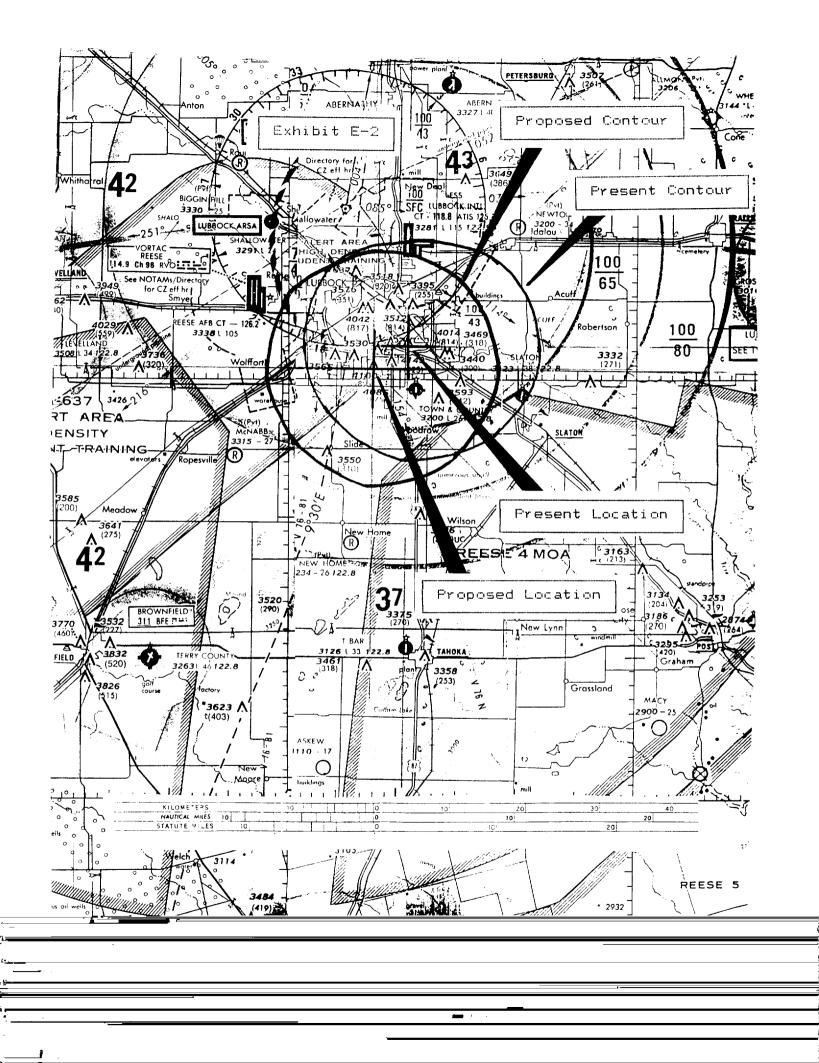
4088.0

Antenna and Site Information

6 . ¹	Attach as Exhibit $NE=6$ a vertical plan sketch for the proposed total structure (including supporting building, if any) giving heights above ground in feet and meters for all significant features. Clearly indicate existing portions, noting lighting, and distinguish between the skeletal or other main supporting structure and the antenna elements.						
		phicant in the capacity indicated below and that I have exto the best of my knowledge and belief.	amined the foregoing statement of technical				
		T. Kent Atkin	is.				
J.		Signature (Check-appropriate box below)				
		2921 Brown Tr Addr	cail, Suite 140 ess (include ZIP Code)				
		Bedford, TX 7	76021				
		(817)_498_700 Telepho)1 ne No. (<i>Include Area Code</i>)				
図 -	Technical Director	☐ Registered Professional Engineer	Other (specify)				
, ,	Technical Consultant	☐ Chief Operator					



JUL. 20 1989



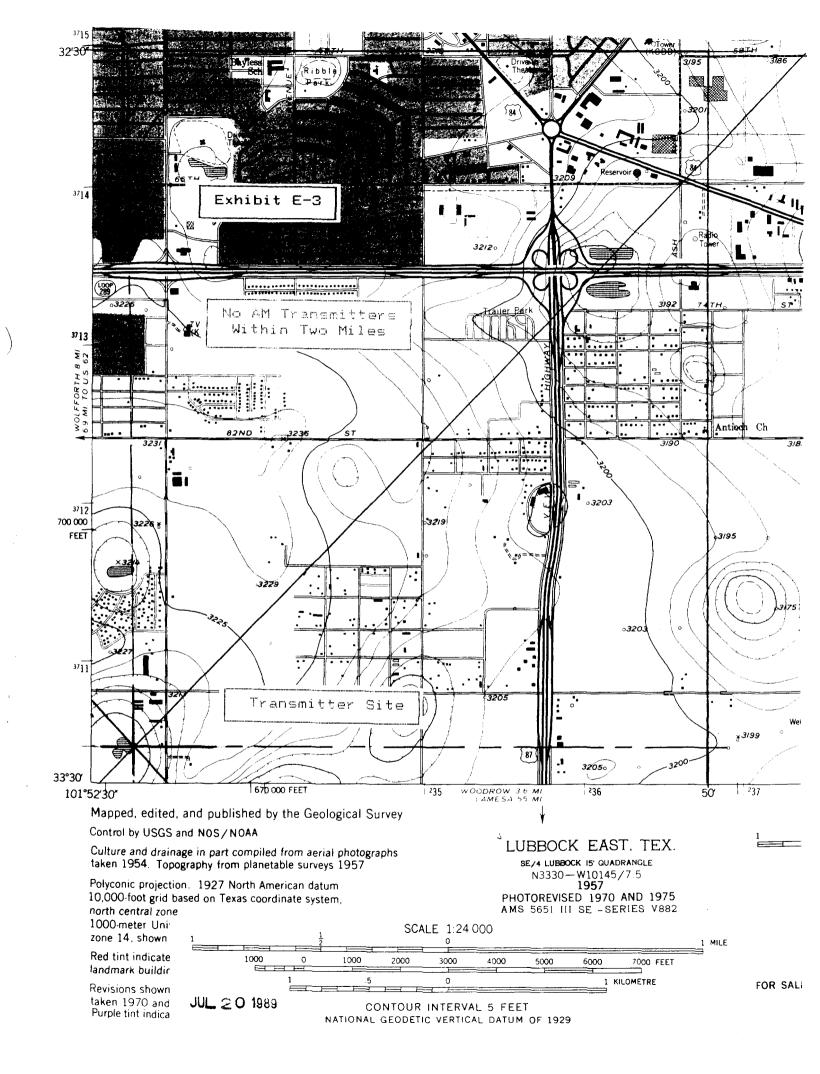


Exhibit E-4

This Applicant has determined that there will be virtually no blanketing at the proposed tower site. The immediate area is a commercially zoned area, and as such is sparsely populated. In addition the transmitter site has been used for both a UHF television and FM broadcast site for the past five years without any blanketing problems.

Should any blanketing interference occur the Applicant will purchase any filters or take other such steps necessary to remedy the problem.

The Applicant assumes full responsibility for any such problems should they arise.

Section V-B, 15 Of FCC Form 340

Caprock Educational Broadcasting
Lubbock Texas

Channel 211 Class A

∍arin	ng Average Terrain Radial (ft/mt)	Radiation Center A.A.T. (ft/mt)	3.16 mV/m (70 dBu) (mi/km)	1 mV/m (60 dBu) (mi/km)	
=====					====
Ø	3200.0/ 975.4	499.6/ 152.3	5.2/ 8.3	9.6/ 15.4	
45	3152.2/ 960.8	547.4/ 166.9	5.5/ 8.8	10.0/ 16.0	
90	3141.5/ 957.5	558.1/ 170.1	5.6/ 9.0	10.1/ 16.2	
135	3165.0/ 964.7	534.6/ 163.0	5.4/ 8.6	9.9/ 15.8	
180	3200.7/ 975.6	498.9/ 152.1	5.2/ 8.3	9.6/ 15.4	
¥25	3271.2/ 997.1	428.4/ 130.6	4.8/ 7.7	8.8/ 14.1	
270	3286.7/1001.8	412.9/ 125.9	4.7/ 7.5	8.7/ 13.9	
315	3243.9/ 988.7	455.8/ 138.9	5.0/ 8.0	9.1/ 14.6	

The Center Of Radiation Above Mean Sea Level is 3699.6 Feet or 1127.7 Meters

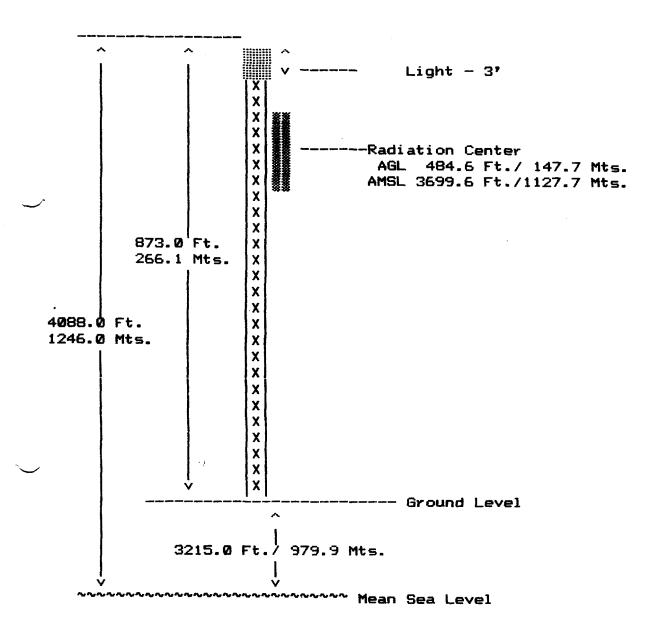
The Average Terrain Elevation is 3207.6 Feet or 977.7 Meters

The Radiation Center Above Average Terrain (HAAT) is 492.0 Feet or 150.0 Meters

The Area Within the 1 mV/m Contour is 282.7 Miles or 732.2 Kilometers

, 2 " "

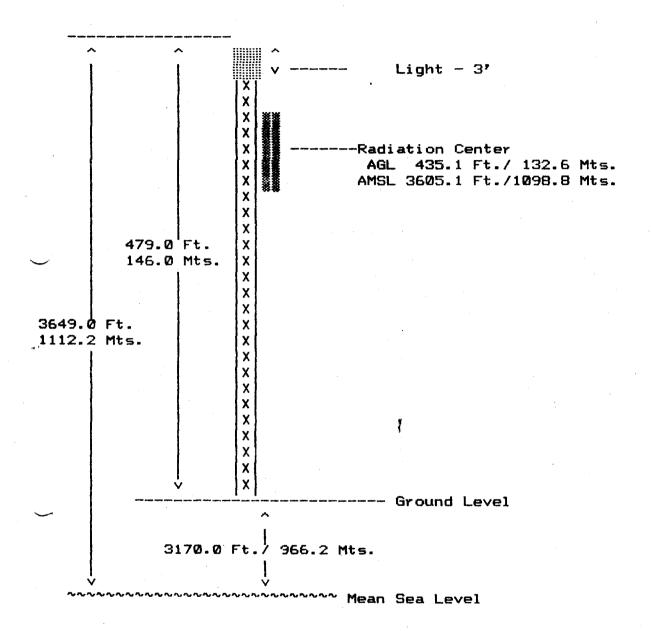
Vertical Plan Sketch of Total Structure Channel 211 Class A



NOTE : NOT TO SCALE

Element Depictions are Purely Symbolic

Shively Laboraties FM Antenna Model 6810 8 Bays - Power Gain 4.4 (6.43 db) Vertical Apperture 77 Feet Vertical Plan Sketch of Total Structure Channel 211 Class A



NOTE: NOT TO SCALE

Element Depictions are Purely Symbolic

Shively Laboraties FM Antenna Model 6810 8 Bays - Power Gain 4.4 (6.43 db) Vertical Apperture 77 Feet